

Material Safety Data Sheet

Section 1: Identification of the Substance or Mixture

Product Code: 10007, 10096

Product Name: Revolution cfDNA Surfactant

For *In Vitro* Diagnostic Use in conjunction with nRichDX Revolution cfDNA Max 20XL, Max 20, and Reagent 0.5 kits.

Details of the supplier of the material safety data sheet



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Support: info@nrichdx.com

Website: www.nrichdx.com

24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, or Accident: Call CHEMTREC

+1.703.741.5970 / 1.800.424.9300

Section 2: Hazards Identification

GHS Classification

Signal Word: DANGER

Hazard pictograms:



Health Hazards:

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 1

Physical Hazards: Not classified

Environmental Hazards: Not classified

Hazard Statements:

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H315: Causes skin irritation
H318: Causes serious eye damage

Precautionary Statements

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection

P264: Wash hands thoroughly after handling

Response:

P332 + P313: If skin irritation occurs, get medical advice/attention

P302 + P352: If on skin, wash with plenty of soap and water

P305 + P351 + P338: If in eyes, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333 + P313: If skin irritation or rash occurs, get medical advice/attention

P310: Immediately call a POISON CENTER or doctor/physician

Storage: Not applicable

Disposal: Not applicable

Other hazards: Not applicable

HMIS:

Health:	3
Flammability:	0
Reactivity:	0

Section 3: Composition/Information on Ingredients

Component	CAS No.	EINECS-No.	Concentration
sodium dodecyl sulfate	151-21-3	205-788-1	≥10% - <30%

Aqueous solution. Exact percentage withheld as trade secret. The product contains no substances which at their given concentration, are considered to be hazardous to health.

Section 4: First Aid Measures

Description of First Aid Measures

Skin contact: Rinse with plenty of water. Immediate medical attention is not required.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical advice.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

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Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed:
May cause skin irritation. May cause serious eye damage.

Indication of any immediate medical attention and special treatment needed: No information available.

Section 5: Firefighting Measures

Suitable extinguishing media: Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Special hazards arising from the substance or mixture: No information available.

Advice for fire-fighters: Standard procedure for fighting chemical fires.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

Environmental precautions: No special environmental precautions required.

Methods and material for containment and cleaning up: Soak up with inert absorbent material.

Reference to other sections: See sections 8 and 13.

Section 7: Handling and Storage

Precautions for safe handling: Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s): For in vitro diagnostic use in conjunction with nRichDX Revolution cfDNA Max 20XL, Max 20, and Reagent 0.5 kits.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	EINECS-No
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sodium dodecyl sulfate	None	None	None
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Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection: Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection: Tight sealing safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: No special environmental precautions required.

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance:	Liquid	
Odor:	No data	
Odor Threshold:	No data	
Molecular weight:	No data	
Melting point/melting range:	°C No data	°F No data
Boiling point/boiling range:	°C No data	°F No data
Flash point:	°C No data	°F No data
Autoignition temperature:	°C No data	°F No data
Decomposition temperature:	°C No data	°F No data
Evaporation rate:	No data available	
Flammability (solid, gas):	No data available.	
Upper explosion limit:	No data available.	
Lower explosion limit:	No data available.	
Vapor pressure:	No data available.	
Relative density:	No data available.	
Specific gravity:	No data available.	
Solubility:	No data available.	
Partition coefficient n-octanol/water:	No data available.	
Viscosity:	No data available.	
Explosive properties:	Mixture has not been tested.	
Oxidizing properties:	No data available.	

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Other information: No data available.

Section 10: Stability and Reactivity

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous reaction has not been reported.

Conditions to avoid: No information available.

Incompatible materials: No dangerous reaction known under conditions of normal use.

Hazardous decomposition products: No data available.

Section 11: Toxicological Information

Information on Toxicological Effects

Chemical Name	LD50 (oral – rat/mouse)	LD50 (dermal – rat/mouse)	LC50 (inhalation – rat/mouse)
sodium dodecyl sulfate	= 1288 mg/kg (Rat) = 1783 mg/kg (Rat)	No data available	>3900mg/m ³ (Rat)

Physical Routes of Exposure

Acute toxicity: Data are conclusive but insufficient for classification.

Irritation: Skin irritation.

Respiratory or skin sensitization: Data are conclusive but insufficient for classification.

Specific target organ toxicity(STOT) – single exposure: Data are conclusive but insufficient for classification.

Specific target organ toxicity(STOT) – repeated exposure: Data are conclusive but insufficient for classification.

Carcinogenicity: Data are conclusive but insufficient for classification.

Germ cell mutagenicity: Data are conclusive but insufficient for classification.

Reproductive toxicity: Data are conclusive but insufficient for classification.

Aspiration hazard: Data are conclusive but insufficient for classification.

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Section 12: Ecological Information

Ecotoxicity

Chemical Name	Algae Toxicity	Daphnia and Other Aquatic Invertebrates Toxicity	Fish Toxicity	Microtox Data	Log Pow
sodium dodecyl sulfate	<i>Desmodesmus subspicatus</i> EC50=42 mg/L (96 h) <i>Desmodesmus subspicatus</i> EC50=53 mg/L (72 h) <i>Desmodesmus subspicatus</i> EC5030 - 100 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC50=117 mg/L (96 h) <i>Pseudokirchneriella subcapitata</i> EC503.59 - 15.6 mg/L (96 h)	Daphnia magna EC50=21.2 mg/L (24 h) Daphnia magna EC50=1.8 mg/L (48 h)	No data available	No data available	logPow1.6

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Results of PBT and vPvB assessment: No information available.

Other adverse effects: No information available.

Section 13: Disposal Considerations

Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

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Section 14: Transport Information

IAT/ADR/DOT-US/IMDG: Not regulated in the meaning of transport regulations.

UN number: Not Applicable.

UN proper shipping name: Not Applicable.

Transport hazard class(es): Not Applicable.

Packing group: Not Applicable.

Environmental hazards: Not Applicable.

Special precautions for user: Not Applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not Applicable.

Section 15: Regulatory Information

Component	US TSCA
sodium dodecyl sulfate 151-21-3	Listed

US Federal Regulations

SARA 313: This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contain HAPs.

US State Regulations

California Proposition 65: This product does not contain Proposition 65 chemicals.

WHMIS Hazard Class: Non-controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16: Other Information

Reason for revision: Original Version

Revision number: A

Revision date: 11-October- 2019

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Use: For *In Vitro* Diagnostic Use

References:

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

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End of Safety Data Sheet